

At  
KOSTIN, V.; ~~SHLEMIN, I.~~

Equipment for transporting ready-made clothing. Sov.torg. no.6:  
59-60 Ja '57. (MLRA 10:8)  
(Clothing and dress--Transportation)

SHLEMIS, Isaak Grigor'yevich; SEMENOV, S.M., red.; IGNAT'YEV, V.A.,  
tekhn. red.

[Committee in cultural work among the masses of the com-  
mission of factory and plant local committees] Komissiiia po  
kul'turno-massovoi rabote FZMK. Moskva, Profizdat, 1962. 60 p.  
(Bibliotekhka profsoiuznogo aktivista, no.2(26)) (MIRA 15:5)  
(Trade unions)

KUDRYAVTSEVA, A.S., inzh., red.; FROG, N.P., inzh., red.;  
SHLEMOVICH, S.V., inzh., red.

[Instructions for designing rural water supply] Ukazaniia po proektirovaniu sel'skokhoziaistvennogo vodosnabzheniia (SN 267-63). Moskva, Stroiizdat, 1964. 24 p.  
(MIRA 17:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Kudryavtseva).
3. Vsesoyuznyy Gosudarstvennyy proyektno-izvskatel'skiy i nauchno-issledovatel'skiy institut vodokhozyaystvennogo stroitel'stva (for Frog).
4. Vsesoyuznyy gosudarstvennyy institut po proektirovaniyu promyshlennykh zdaniy i sooruzheniy sel'skogo khozyaystva (for Shlemovich).

Машин., Эл. ст., Инж.; МЕЛОВИЧ, И.И., Инж.; КОЛЕСНИКОВ, В.В., Инж.;  
МАШИ, И.И., Инж.

Машин. for the semi-automatic loading of cement into trucks. Cement 30 cm. 5:18-19 1-0 1/2.

1. 1/2 1/2 1/2

1. Всесоюзное государственное специальное предприятие по проведению  
монтажно-наладочных и проектно-конструкторских работ в строительной  
промышленности СССР.

SHLEMOVICH, S.Y.. inzh.

Water mineralization norms for livestock. Vod. i san. tekhn.  
no.7:22 JI '64 (MIRA 18:1)

IVANOVA, A.S.; SHABALIN, S.D.1 MICHURINA, I.A.; SHLENDIK, T.Ye.; PECHEN',  
N.G.; YATSENKO, V.A.; USOVA, A.P.; PROLOVA, P.A., otv.red.;  
ROGOVSKAYA, Ye.G., red.; VOLKOV, N.V., tekhn.red.

[Agroclimatic reference book on Amur Province] Agroklimaticheskii  
spravochnik po Amurskoi oblasti. Leningrad, Gidrometeor.izd-vo,  
1960. 134 p.  
(MIRA 13:11)

1. Khabarovsk. Gidrometeorologicheskaya observatoriya. 2. Khaba-  
rovskaya gidrometeorologicheskaya observatoriya (for Ivanova,  
Shabalin, Michurina, Shlendik, Pechen', Yatsenko, Usova). 3. Na-  
chal'nik Otdela agrometeorologii Khabarovskoy gidrometeorologicheskoy  
observatorii (for Ivanova).  
(Amur Province--Crops and climate)

SHLENEV, M. A.

SHLENEV, M. A. "Surfaces with Intersecting Triangles." Rostov State U  
imeni V. M. Molotov. Rostov na Donu, 1956. (Dissertation  
for the Degree of Candidate in Physicomathematical Science)

So: Knizhnaya Letopis', No. 19, 1956.

156

AUTHORS: Gandin, L. S., Laykhtman, D. L., Sopots'ko, Ye.A., Shleneva, M. V.

TITLE: Problems in Dynamic Meteorology (Zadachnik po dinamicheskoy meteorologii)

PUB. DATA: Gidrometeorologicheskoye izdatel'stvo, Leningrad, 1957, 182 pp., 3000 copies.

ORIG. AGENCY: None given

EDITORS: Laykhtman, D. L., Professor; Vlasova, Yu. V.; Tech. Ed.: Braynina, M. I.

PURPOSE: The book serves as a textbook for meteorological departments of hydrometeorological institutes.

COVERAGE: The problems and their solution comprise the practical exercises for a course in dynamic meteorology. The problems are grouped in specific units as can be seen from the table of contents. Explanatory notes are attached to every chapter and some basic data necessary for solving the problems are inserted at the end. Author mentioned: Ludin, M. I. There are no references.

Card 1/7



ROZENTAL', L.V.; BELYANINA, Ye.T.; Prinimali uchastiye: CHIKISHEVA, L.I.;  
SHLENEVA, N.S.

Plasticization of cellulose triacetate films. Plast.massy no.11:  
6-8 '61. (MIRA 14:10)

(Cellulose acetate)

(Plasticizers)

L 32168-66 EWT(m)/T IJP(c) RM/WW/JWD

ACC NR: AP6012137 (A)

SOURCE CODE: UR/0413/66/000/007/0057/0057

39

INVENTOR: Khanukayeva, I. A.; Faydel', G. I.; Belyanina, Ye. T.; Shlenava, N. S. <sup>B</sup>

ORG: none

TITLE: Plasticizing graft styrene copolymers with rubber. Class 39, No. 180332 <sup>15</sup>

SOURCE: Izobreteniya, promyshlennyye obraztzy, tovarnyye znaki, no. 7, 1966, 57

TOPIC TAGS: plasticizer, styrene copolymer, graft copolymer

ABSTRACT: An Author Certificate has been issued describing a method of plasticizing graft styrene copolymers with rubber using plasticizers. To improve the properties of the finished product, a mixture of esters obtained by esterification of synthetic monobasic alcohols containing C7—C9 with synthetic monobasic acids containing C10—C13, C14—20 in the amount of 0.8—3.0% is suggested as the plasticizer. ✓

[LD]

SUB CODE: 11/ SUBM DATE: 07Jan63

Card 1/1 <sup>20</sup>

UDC: 678.049.13

SHLENIKER, R., Cand Agr Sci -- (diss) "Effects of predecessors, soil treatment and fertilizers on the harvest yield of grasses." Moscow, 1960. 18 pp; (Moscow Order of Lenin Agricultural Academy im N. A. Timiryazev); 150 copies; price not given; (KL, 26-60, 141)

SHLENKER, R., aspirant; SHATILOV, I.S., kand.sel'skokhozyaystvennykh  
nauk, dotsent

After effect of soil cultivation practices and fallow crops on  
the yield of grasses [with summary in English]. Izv. TSKhA no.2:  
57-71 '61. (MIRA 14:8)

(Tillage) (Fallowing) (Grasses)

SHLENKIN, O.G., starshiy prepodavatel'; BELOSHAPKIN, G.V., tekhnik-energetik

Experimental studies of the thermal insulation properties of  
vibrated brick slabs. Sbor. nauch. trud. TISI 8:21-30 '61.  
(MIRA 15:1)

1. Tomskiy inzhenerno-stroitel'nyy institut, kafedra "Tekhnologiya  
metallov i teploenergetika".

(Brick walls)

"The effect of the dielectric constant of the liquid on the solubility of gases in liquids."   
 "Zh. fiz. khim.", 1964, vol. 38, no. 1, p. 17.   
 "Zh. fiz. khim.", 1964, vol. 38, no. 1, p. 17.   
 "Zh. fiz. khim.", 1964, vol. 38, no. 1, p. 17.

SHLENKINA, N. G.

FD-1141

USSR/Physics - Solution structure

Card 1/1      Pub. 129-5/23

Author : Shlenkina, N. G., and Shakhparonov, M. I.

Title : Investigation of the structure of solutions of benzol carbon tetrachloride with methyl alcohol by means of molecular scattering of light

Periodical : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 7, 43-48, Oct 1954

Abstract : The authors note that the clarification of the structure of solutions and of pure fluids is one of the most important problems in the modern physics of the fluid state; at the present time the investigation of the structure of fluid alloys of metals is of the greatest practical significance. Because of the extreme difficulty of studying such fluids the authors study here the simpler but related case of nonelectrolytes, e.g. the system  $C_6H_6-CCl_4-CH_3OH$ . They find that concentration fluctuations develop considerably in such a system, as deduced theoretically (M. I. Shakhparonov, Zhur. fiz. khim., 27, 87, 1953), but depend but slightly upon fluctuations in density and anisotropy. Because of the simplifying assumptions (e.g. independence of orientation of each molecule from the orientation of the neighboring molecules) they regard their results as preliminary (see their article in DAN SSSR, 96, 55, 1954).

Institution : Laboratory of Physics of Solutions

Submitted : January 20, 1954

CHL-111-100 A.G.

1/ Investigation of the structure of solution benzene-carbon tetrachloride-methyl alcohol by means of molecular scattering of light. N. G. Shlenkina and M. I. Shakhparonov. *Vestnik Moskov. Univ.* 9, No. 10, Ser. Fis.-Mat. i Estestven. Nauk No. 7, 43-8 (1954).—Index of reflection, coeff. of depolarization, and relative intensities of the mol. scattering of light in the ternary system  $\text{CH}_3\text{OH}-\text{CCl}_4-\text{C}_6\text{H}_6$  were measured. From these data the relative scattering of light, depending on the fluctuation of anisotropy, d., and concn., were calcd. In these systems considerable fluctuations of the concn. were developed. The structure of this system is intermediate in comparison with the structure of the corresponding binary systems. M. Charmandarian



Shlenkina, N.G.

USSR/ Chemistry - Physical chemistry

Card 1/1 : Pub. 147 - 7/22

Authors : Shakhparonov, M. I., and Shlenkina, N. G.

Title : On the theory of solutions. Part 9.- Molecular diffusion of light and the structure of solutions

Periodical : Zhur. fiz. khim. 28/11, 1910-1921, November 1954

Abstract : Measurements were conducted to determine the relative intensity and degree of depolarization of molecular light diffusion in two-component systems such as: benzene-methyl alcohol, benzene-acetone, benzene-n-butyl alcohol, carbon tetrachloride-methyl alcohol, etc. The structural characteristics of the investigated systems is described. Relative light diffusion intensities were computed for density, anisotropy and concentration fluctuations and the relation between the mentioned fluctuations is explained. The isothermal compressibility of benzene-methyl alcohol solutions was calculated at 20° and the results are listed. Thirteen references: 1-USA; 2-Indian; 1-German and 9-USSR (1908-1953). Tables; graphs; drawing.

Institution : The M. V. Lomonosov State University, Moscow

Submitted : February 24, 1954

Shlenkina, N. G.

✓ Raman-effect studies of the structure of solutions. M. I. Shakhparonov and N. G. Shlenkina. *Doklady Akad. Nauk S.S.S.R.* 96, 66-67 (1954); cf. C.A. 49, 2826a. — Studies were planned to reveal the relation between concn. fluctuations and the compn. of the soln., and to confirm the derivation of conclusions from the soln. theory by measuring the relative intensity and the degree of the Rayleigh mol. depolarization of light in liquid solns. of org. dielectrics which form no layers. The systems studied which differ most in dielec. properties were MeOH-C<sub>6</sub>H<sub>6</sub>, MeOH-CCl<sub>4</sub>, MeOH-o-xylene, and MeOH-C<sub>6</sub>H<sub>5</sub>Cl. The systems with similar dielec. properties of the components were n-C<sub>4</sub>H<sub>9</sub>OH-C<sub>6</sub>H<sub>6</sub> and Me<sub>2</sub>O-o-xylene. The results largely confirmed the hypothesis. For the system C<sub>6</sub>H<sub>6</sub>-MeOH, the results calcd. by the Einstein formula, with the partial pressure of the components given by Scatchard and Ticknor (C.A. 46, 10826a), are much lower than the exptl. results of S and S. W. M. S.

①

SHLENKINA, N. G.

24(8)	PHASE I BOOK EXPLOITATION	SOV/2809
	Akademiya nauk SSSR. Otdeleniye khimicheskikh nauk	
	Termodinamika i stroeniye rastvorov: trudy aveshchaniya... (Thermodynamics and Structure of Solutions; Transactions of the Conference Held January 27-30, 1958) Moscow, Izd-vo AN SSSR, 1959. 295 p. 3,000 copies printed.	
	Ed.: M. I. Shakhparonov, Doctor of Chemical Sciences; Ed. of Publishing House: M. G. Yegorov; Tech. Ed.: T. V. Polyakova.	
	PURPOSE: This book is intended for physicists, chemists, and chemical engineers.	
	COVERAGE: This collection of papers was originally presented at the Conference on Thermodynamics and Structure of Solutions sponsored by the Section of Chemical Sciences of the Academy of Sciences, USSR, and the Department of Chemistry of Moscow State University, and held in Moscow on January 27-30, 1958. Officers of the conference are listed in the Foreword. A list of other reports also read at the conference, but not included in this work are: electrostatic interactions, ultrasonic measurement, dielectric and thermodynamic properties of various mixtures, spectroscopic analysis, etc. References accompany individual articles.	
	Shakhina, N. P. Molecular Dispersion of Light in Solutions of Nonelectrolytes	233
	Shlenkina, N. G., and M. I. Shakhparonov. Verification of the Theory of Molecular Dispersion of Light by Means of Binary Solutions	239
	Vuk, M. P. Anisotropic Dispersion of Light and Its Use in Studying Liquids and Solutions	242
	Mashchenko, K. P., and A. M. Ponomareva. Partial Molar Entropies in Systems Acetic Acid-Water and Formic Acid - Water and the Structure of These Solutions	246
	Chulnovskiy, V. N. Spectroscopic Methods for Studying the Structure of Solutions	251
	Belov, M. N. Spectroscopic Methods for Studying Complexes in Solution	253
	Zelinskiy, V. V., V. P. Kolopkov, and I. I. Reznikova. Relationship Between Electronic Absorption Spectra and Radiation of Solutions of Organic Compounds and the Chemical Nature of Solvents	262
	Yarabsteyn, P. Ye., and V. I. Antipova-Karabiyeva. Study of Solvation of Ions in Solutions With the Aid of Optical Absorption Spectra	266
	Antipova-Karabiyeva, V. I. Study of the Effect of the Substituent on the State of the Chromophore by Means of Absorption Spectra of Solutions and Alum Crystals	270
	Vasenko, Ye. M., A. P. Chernysvakaya, and M. V. Chumaya. Infrared Spectra of Electrolytic Solutions in Formamide	273
	Levshina, V. L., Ye. G. Baranova, L. D. Derkachova, and L. V. Levshina. Study of Association in Concentrated Solutions of Dyes by Means of Absorption and Luminescence Spectra	275
	Levshina, L. V. Effect of Ionization and Association on Optical Properties of Complex Organic Molecules	285

CHISTYAKOV, Aleksandr Romanovich; DENISOV, Aleksandr Konstantinovich;  
SHLEH'KOVA, T.A., red.; DANILOVA, Ye.M., tekhn.red.

[Types of forests in the Mari A.S.S.R. and adjacent regions]  
Tipy lesov Mariiskoi ASSR; i sopredel'nykh raionov. Ioshkar-  
Ola, Mariiskoe knizhnoe izd-vo, 1959. 73 p. (MIRA 13:6)

1. Kafedra lesovodstva i dendrologii Povolzhskogo lesotekhnicheskogo instituta im. M.Gor'kogo (for Chistyakov, Denisov).  
(Mari A.S.S.R.--Forests and forestry)

YEVDAKOV, V.P.; SHLENKOVA, Ye.K.; BILEVICH, K.A.

Amides and anhydrides of phosphorus acids. Part 4: Phosphorylation of hydroxyl-containing compounds with p-diethylamid-p-acethyl-O-alkyl phosphites. Zhur. ob. khim. 35 no.4:728-731 Ap '65. (MIRA 18:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.

YEVDAKOV, V.P.; SHLENKOVA, Ye.K.

Amides and anhydrides of phosphorus acids. Part 5: Reaction of amides of phosphorous and phosphinic acids with acetic anhydride. Zhur. ob. khim. 35 no.4:739-741 Ap '65.

(MIRA 18:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.

YEVDAROV, V.P.; SHLENKOVA, Ye.K.

Amides and anhydrides of phosphorus acid. Part 3: Reaction  
of amides of phosphorous acid with carboxylic acid anhydrides.  
Zhur. ob. khim. 35 no.9:1587-1591 S '65. (MIR: 18:10)

1. Institut azotnoy promyshlennosti i produktov organicheskogo  
sintaza.

L 25680-66. EWI(m)/EWP(j) RM

ACC NR: AP6016692

SOURCE CODE: UR/0079/65/035/009/1587/1591

AUTHOR: Yevdakov, V. P.; Shlenkova, Ye. K.

ORG: Institute of the Nitrogen Industry and Products of Organic Synthesis (Institut  
azotnoy promyshlennosti i produktov organicheskogo sinteza) 25  
BTITLE: Investigation in the field of amides and anhydrides of phosphorus acids. VIII  
Interaction of amides of phosphorous acid with anhydrides of carboxylic acids

SOURCE: Zhurnal obshchey khimii, v. 35, no. 9, 1965, 1587-1591 1

TOPIC TAGS: carboxylic acid anhydride, phosphorous acid, ester, organic amide,  
phosphorylation

ABSTRACT: Amide esters of phosphorous acid were found to react with anhydrides of carboxylic acids to form mixed anhydrides of phosphorous and carboxylic acids; they do not undergo the Arbuzov rearrangement. The corresponding mixed anhydrides and diethylamides of the carboxylic acids were produced with a great evolution of heat. Tetraalkyldiamides of phosphorous acid react with anhydrides of monobasic carboxylic acids to form acyl phosphites: diacyl phosphites in the reaction of two moles of the anhydride, amidoacyl phosphites in the reaction with one mole of the anhydride. Dialkylamidoacyl phosphites and amidoacyl phosphites are unstable and decompose almost entirely to the amide of the corresponding acid and metaphosphite when heated. They are also

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UDC: 546.183 : 547.29



L 25680-66

ACC NR: AP6016692

effective phosphorylating agents, reacting with alcohols to form dialkyl phosphite and the diethylamide of the carboxylic acid. Phosphorylation of alcohols can be conducted in one step without isolation of the amidoacyl phosphites by successively treating the tetraalkyldiamide of alkylphosphorous acid with an acid anhydride and an alcohol. Anhydrides of dibasic acids (phthalic, succinic) also react with amides of phosphorous acid. / Orig. art. has: 3 tables. / JPRS/

SUB CODE: 07 / SUBM DATE: 30Jun64 / ORIG REF: 007 / OTH REF: 001

Card 2/2 dda

ACC NR: AP6021420

SOURCE CODE: UR/0413/66/000/011/0021/0021

INVENTOR: Yevdakov, V. P.; Shlenkova, Ye. K.

ORG: none

TITLE: Preparation of cyclic alkyl phosphites.<sup>1</sup> Class 12, No. 182157<sup>16</sup> [announced by State Scientific Research and Design Institute of the Nitrogen Industry and Products of Organic Synthesis (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 21

TOPIC TAGS: organic synthetic process, organic phosphorus compound, phosphorous acid derivative, cyclization, cyclic ester

ABSTRACT: The subject of this invention is a simplified method for the preparation of cyclic alkyl phosphites from N,N,N<sup>1</sup>,N<sup>1</sup>-tetraalkylphosphorous diamides which are treated with acetic anhydride and glycols. [JK]

SUB CODE: 07/ SUBM DATE: 06Apr65

Card 1/1

UDC: 547.419.1.07

ACC NR: AP7010718

SOURCE CODE: UR 0062/66/000/012/2207/2208

AUTHOR: Ishorlin, A. Ya.; Snyatkova, V. I.; Yevdakov, V. P.; Shlenkova, Ye. K.

ORG: Institute of the Chemistry of Natural Compounds, Academy of Sciences  
USSR (Institut khimii prirodnikh soyedineniy AN SSSR)

TITLE: Synthesis of 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyldibutyl-phosphite

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 12, 1966, 2207-2208

TOPIC TAGS: chemical synthesis, pyridine, phosphate ester, nuclear  
magnetic resonance

SUB CODE: 07

ABSTRACT: The action of dibutylacetylphosphite as a phosphorylating agent for carbohydrate derivatives with a free hemiacetal hydroxyl was investigated using 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranose as an example. The condensation proceeded without inversion of the configuration, forming 2,3,4,6-tetra-O-acetyl- $\beta$ -D-glucopyranosyldibutylphosphite. The reaction was conducted in absolute benzene medium, in the presence of absolute pyridine as an acetic acid acceptor. The structure of the reaction product was proven by element analysis, hydrolysis upon standing, acid methanolysis to the methylglucoside, and a study of the nuclear magnetic resonance spectrum. The phosphite could subsequently be oxidized to the corresponding phosphate. Orig. art. has: 1 formula. [JPRS: 40,351]

Card 1/1

UDC: 542.91 + 547.454 + 661.718.1

BUBNOV, Il'ya Alekseyevich, general-mayor tekhnicheskikh voysk v  
otstavke; KREMP, Adrian Ivanovich, inzh.-polkovnik v  
otstavke; KALININ, Aleksandr Konstantinovich, polkovnik;  
SHLENNIKOV, Sergey Aleksandrovich, podpolkovnik; DUKACHEV,  
M.P., red.

[Military topography; a textbook for military schools of  
the Soviet Army] Voennaia topografiia; uchebnik dlia voen-  
nykh uchilishch Sovetskoi Armii. Moskva, Voenizdat, 1964.  
349 p. (MIRA 17:7)

SVECHIN, V. I. (Ivanovich); STRANOV, A. I., red.; SMETNIKOVA, -  
I. V., red.

[Design and outfitting of boats for inland navigation]  
Konstruktsiia i ustroistvo sudov vnutrennego plavaniia.  
Moskva, Transport. It. 4. [Fiberglass boats] Plastmasso-  
vye suda. 1964. 103 p. (MIRA 17:9)

KURCHENKO, Nikolay Aleksandrovich; SPITSKY, Leonid, doct., asst.  
tekh. nauk, nauchn. red.; SHCHERBOKOV, M.V., red.

[Engineering thermodynamics] Tekhnicheskaya termodina-  
mika. Izd. 5., znachitel'no perer. Moskva, izd-vo  
"Transport," 1964. 221 p. (NLC 1811)

BASIN, Abram Moiseyevich, prof., doktor tekhn. nauk; ANFINOV,  
V.M., red.; SELENIKOVA, Z.V., red.

[Propulsive speed and maneuverability of ships] khozgost'  
i upravliaemost' sudov. Moskva, Transport. Pt.2. 1964.  
475 p. (MIRA 18:1)

1. Kafedra teorii korablya Leningradskogo instituta vod-  
nogo transporta (for Basin).

LAKHANIN, Vladimir Vladimirovich; ZAKHAROV, Yuriy Vasil'yevich;  
LEBEDEV, Oleg Nikolayevich; FEDOROV, G.N., retsenzent;  
MIGICHEV, B.S., red.; SHLENNIKOVA, Z.V., red.

[Use of atomic energy in water transport] Ispol'zovanie  
atomnoi energii na vodnom transporte. Moskva, Transport,  
1965. 187 p. (MIRA 18:4)



SHAPILOV, Valeriy Mikhaylovich; NIKITIN, G.M., doktor tekhn.  
nauk, red.; SHLENNIKOVA, Z.V., red.

[Safety measures in operating the electric equipment  
of ships] Tekhnika bezopasnosti pri ekspluatatsii elektro-  
oborudovaniia sudov. Moskva, Transport, 1965. 50 p.  
(MIRA 18:6)

KITA, Vladimir Frantsevich; MAL'TSEV, V.I., kand. tekhn. nauk,  
retsensent; IKONNIKOV, S.A., kand. tekhn. nauk,  
retsensent; ARISTOV, Yu.K., inzh., red.; SHLENNIKOV,  
Z.V., red.

[Reduction gears and couplings in marine power plants]  
Reduktory i soedinitel'nye mufty v sudovykh silovykh  
ustanovkakh. Moskva, Transport, 1965. 207 p.  
(MIRA 18:7)

PISENNIKOV, Guriy Pavlovich; NIKITINA, G.M., doktor tekhn. nauk,  
red.; SHLENNIKOVA, Z.Y., red.

[Operation of the electric systems for automatic and remote  
control of marine emergency, port and auxiliary diesel  
generators] Eksploatatsiya elektricheskikh sistem avtomati-  
zeskogo i distantsionnogo upravleniya sudovymi avariinymi,  
stoianochnymi i vspomogatel'nymi dizel'generatorami. Mo-  
skva, Transport, 1965. 93 p. (MIRA 18:7)

RUKAVISHNIKOV, Nikolay Fedorovich; KOMOGORTSEV, P.Ya., red.;  
SHLENNIKOVA, Z.V., red.

[Repair of marine low-speed diesels] Remont sudovykh tikho-  
khodnykh dizelei. Moskva, Transport, 1965. 310 p.  
(MIRA 18:12)

SHLENOV, V. K.

The chromium-chromic oxide system. Ya. I. Ofshanskii and V. K. Shlenov (*Dokl. Akad. Nauk. SSSR*, 1953, 91, 561-564). — ~~1953, 91, 561-564~~ 1953, 91, 561-564; as found by Girulic (*Z. Elektrochem.*, 1939, 45, 835), and is reduced by 1%  $\text{Cr}_2\text{O}_3$  to 1840°, after which it remains constant to ~ 71%  $\text{Cr}_2\text{O}_3$ , and then falls to the eutectic point with  $\text{Cr}_2\text{O}_3$  at 20%  $\text{Cr}$ , 1600°.  $\text{Cr}_2\text{O}_3$  melts at about 2400°. No  $\text{CrO}$  is formed. A phase diagram is given, not accurately delineated at 80%  $\text{Cr}_2\text{O}_3$  because of the porosity of the  $\text{Al}_2\text{O}_3$  crucible used at temperatures and its reaction with  $\text{Cr}$ . R. C. MURRAY.

CHEKHOV, V. I.; LIN, I. G.; SHLENOV, V. K., red.

[Practical handbook on the petrographic study of igneous rocks with a microscope] Prakticheskoe rukovodstvo po petrograficheskomu izucheniiu magmaticheskikh porod pod mikroskopom. Petrozavodsk, Rosvuzizdat, 1963. 76 p.  
(MIRA 17:5)

MONINA, P.V., kand. tekhn. nauk, starshiy nauchnyy sotrudnik; SHLENOVA,  
A.S., inzh.

Creel for making viscose silk warp from cheese\$. Tekst. prom.  
25 no.5:35-37 My '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy i eksperimental'nyy  
institut pererabotki khimicheskikh volokon (VNIIPKhV) (for  
Monina). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut  
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Aedes, age distribution & life expectancy)

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Dimethylglyoxime and methylglyoxime in the determination of palladium. V. M. Peshkova and V. I. Shlenskaya. Vestnik Akad. Nauk. Ser. Fiz.-Mat. Nauk No. 2, 129-33(1953).—In the gravimetric detn. of Pd with (MeC:NOH)<sub>2</sub> best results were obtained in a 2N HCl soln. Methylglyoxime was advantageously employed in the colorimetric detn. of Pd, alone or in the presence of Pt and Ir, but was unsuitable for the gravimetric detn.

Gerard Aufferger

SHLENSKAYA, V. I.

Vestnik, Moskov Univ. No. 5

Determination of palladium by means of oximes. V. M. Peshkova, V. I. Shlenskaya, and A. I. Rashevskaya.

*Vestnik Moskov. Univ. No. 5, Ser. Fiz. Khim. i Estestven. Nauk No. 3, 83-86 (1964).*

Methylglyoxime (I) and salicylaldoxime (II) are suitable for colorimetric detn. of Pd in solns. of pure salts and in the presence of other elements. Unsym. methylglyoxime is the more satisfactory reagent. I-Pd complex in  $\text{CHCl}_3$  or  $\text{C}_6\text{H}_6$  yields solns. of yellow color, with max. color developed at pH 7. Molar extinction coeffs. of I-Pd complex are 1400 in  $\text{C}_6\text{H}_6$ ,  $\text{CHCl}_3$ , and  $\text{PhCl}$ , 1300 in  $\text{PhBr}$ , and 1800 in  $\text{CCl}_4$ . The max. light absorption is in the ultraviolet. The solns. follow the Lambert-Beer Law with 0.03-0.15 mg. Pd/10 ml. In a soln. contg. only Pd, heat (2-3 ml.) with 0.5 ml. 0.1% 1, 2-3 ml. acetate buffer (pH 4) and 5 ml.  $\text{C}_6\text{H}_6$ ; after 3 min. agitation remove the aq. layer, treat with 5 ml.  $\text{C}_6\text{H}_6$  and stir 3 min.; combine the org. layers, then measure in a photometer at 427 m $\mu$ . The detn. is satisfactory in the presence of much

Pt(IV). Ir(IV) interferes, because its complex is partially extd. by  $\text{C}_6\text{H}_6$ ; hence it should be reduced by  $\text{NH}_2\text{OH}\cdot\text{HCl}$  until a green color develops, after which the above procedure can be used. Co and Ni do not interfere, but the simultaneous presence of Ir, Ni, and Co gives low results. The gravimetric method for Pd with II (cf. Holzer, C.A. 28, 1627<sup>1</sup>) requires washing the product with a satd. soln. of the complex; EtOH cannot be used owing to the soly. of the ppt. in it. The  $\text{C}_6\text{H}_6$  solvent can be augmented by  $\text{PhBr}$  or  $\text{Me}_2\text{CO}$  to get a more intense color. The  $\text{C}_6\text{H}_6$  soln. has an absorption max. in the ultraviolet and the color is sensitive to 3  $\gamma$  Pd/ml. For the detn. a weakly acid soln. of Pd is used, which is treated with pH 4 buffer and  $\text{C}_6\text{H}_6$ , followed by a 3-fold excess of 1% soln. of II; 3 extns. with  $\text{C}_6\text{H}_6$  are advised. Ni and Co do not interfere, nor does Pt(IV) but Ir(IV) causes difficulties, as with I. In the action of II on mixed salts of Pd and Ir, the soln. gradually loses color owing to reduction of Ir(IV). This permits a relatively accurate detn. of Pd in the presence of Ir(IV) and simultaneous presence of Ir and Pt (relative error less than 5%). Similar accuracy is possible for detn. of 0.2-0.3 mg. Pd in the presence of 10-fold excess of Pt, Ir, Co, Ni, and Fe(III); with smaller amts. of Pd, the accuracy declines to 10-18%.  
G. M. Kosolapoff

Shlenskaya, I. I.

USSR

Determination of palladium as the thiocyanate complex with the application of homogeneous solvents. E. S. Przhval'skiy, V. I. Shlenskaya, and L. F. Maternykh. *Vestnik Moskov. Univ.*, No. 6, Ser. Fiz.-Mat. i Estestven. Nauk No. 4, 71-6 (1954).—Colorimetric detn. of Pd is described in either pure solns. of Pd salts or in the presence of Fe, Co, Pt(IV), and Ir(IV). The detn. is based on the red complex  $[Pd(SCN)_4]^-$  (cf. C.A. 47, 4789c; Belucci, *Atti accad. Lincei* 13, II, 388 (1904)). The complex is extd. with BuOH or iso-AmOH at pH below 5 and the detn. is made at 438 m $\mu$ , with sensitivity to 2  $\gamma$  per ml. with relative error of 2.5% in the concn. range of 0.2-0.9 mg. Pd. Addn. of 2 ml. satd.  $Na_2HPO_4$  prevents interference of Fe. If Co is present, a blue complex is formed. A filter, which permits light of wave length 438 m $\mu$  to pass through, is used for the satisfactory detn. of Pd. Pt(IV) does not interfere because the  $PtCl_4^{2-}$  ion is not extd. with iso-AmOH. In the presence of  $IrCl_4^-$ , the addn. of excess KSCN or  $NH_4SCN$  prevents interference. If all the elements are present (Pd, Fe, Co; Pt, Ir) the use of 2 ml.  $Na_2HPO_4$  causes too high results for Pd; in such cases an excess of  $Na_2HPO_4$  eliminates the difficulty. G. M. Kosolapoff

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SHLEVSKAYA, V. I.

USSR/Chemistry - Analytical

FD-1143

Card 1/1      Pub. 129-7/23

Author        : Przheval'skiy, Ye. S.; Shlevskaya, V. I.; Ogarkova, N. F.

Title         : Determining palladium with p-thiocyananiline

Periodical    : Vest. Mosk. un., Ser. fizikomat. i yest. nauk, 9, No 7, 59-64, Oct 1954

Abstract      : Introduction of the negative SCN group in a position para to the amino group in aniline reduces the ability of the compound to form complexes. p-Thiocyananiline can be used for the gravimetric determination of palladium even in the presence of ferric, cuprous, Pt, and Ir ions. Six references (one USSR).

Institution   : Chair of Analytical Chemistry

Submitted     : March 10, 1954

USSR/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61848

Author: Peshkova, V. M., Shlenskaya, V. I., Rashevskaya, A. I.

Institution: None

Title: Colorimetric Determination of Palladium with Oximes

Original

Periodical: Izv. Sektora platiny IONKh AN SSSR, 1955, No 32, 61-74

Abstract: Compounds of Pd with dimethylglyoxime (I), methylglyoxime (II) and salicylaldoxime (III) are dissolved in nonaqueous solvents. Yellow solutions of Pd compounds with II or III in  $C_6H_6$  or  $CHCl_3$  have high values of molar coefficient of light absorption which renders them convenient for photometric determination of Pd without preliminary separation of the associated elements. The oximates are extracted at pH 1-4 in the presence of excess II and III. In lieu of III there can be added to the solution of Pd salt, with the same result, successively salicylic aldehyde (IV) and then hydroxylamine (V) although on simply mixing IV and V, in the absence of Pd, III is not formed.

Card 1/2

SOV/137-57-11-22744

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 302 (USSR)

AUTHORS: Przheval'skiy, Ye. S., Shlenskaya, V. I., Razina, I. S.

TITLE: Colorimetric Determination of Palladium With n-nitrosodiphenylamine Employing Non-aqueous Solvents (Kolorimetricheskoye opredeleniye palladiya n-nitrozodifenilaminom s primeneniye nevodnykh rastvoriteley)

PERIODICAL: Vestn. Mosk. un-ta. Ser. matem., mekhan., astron., fiz., khimii, 1957, Nr 1, pp 111-116

ABSTRACT: A method was developed for the colorimetric determination of Pd with n-nitrosodiphenylamine (I) in non-aqueous solvents with a relative error of 2 - 3%. I and its analogues produce compounds with Pd salts that are colored from yellow to purple-brown. A solution of  $\text{PdCl}_2$  and a 0.005% water-alcohol solution of I were used. Solutions of a Pd compound with I dissolved in n-butyl alcohol (II) comply with Beer's law within the 0.5 - 2.5  $\gamma$  Pd concentration range, with a 0.05  $\gamma$  Pd interval, and within the 1 - 5  $\gamma$  Pd range with a 1- $\gamma$  interval when the total volume of the solution is 10 cc. The sensitivity of the reaction is 0.05  $\gamma$ /cc at  $\lambda$  533 m $\mu$ . To a solution

Card 1/2



SOV/137-57-11-22744

Colorimetric Determination of Palladium (cont.)

containing up to 5  $\gamma$  Pd 2 cc of a pH=1.8 buffer solution and 0.5 cc of I are added and the volume is brought up to 10 cc with water. The reaction mixture is heated for 30 sec at 55 - 60°C, cooled, and extracted with three 1-cc doses of II in the course of 2 min. Co, Ni, Fe, Cu, Pt, and Ir do not interfere.  $\text{IrCl}_6^{2-}$  is reduced with 3 - 4 drops of 0.5N  $\text{FeSO}_4$ . Colorimetric determination of Pd in an aqueous medium in the presence of these elements is impossible. For the determination of the composition of the Pd compound the isomolar series method is used. It is established that the compound of Pd with I in II can be expressed by the formula  $(\text{C}_6\text{H}_5\text{NH}-\text{C}_6\text{H}_4-\text{NO})_2 \cdot \text{PdCl}_2$ .

K. K.

Card 2/2

SHLENSKAYA, V.I.

Forty-year progress of the U.S.S.R. in applying organic reagents to inorganic analysis. Vest. Mosk. un. Ser. mat. mekh., astron., fiz., khim. 12 no. 6:237-250 '57. (MIRA 11:10)

1. Kafedra analiticheskoy khimii Moskovskogo gosudarstvennogo universiteta.

(Chemistry, Analytical)

ORLENSKAYA, V. I., PESHKOVAYA, V. M.

"Reactions of palladium with potassium thiocyanide applied in analysis and their study by a spectrophotometric method."

paper submitted to the Fifth Conference on the Analysis of Noble Metals, Novosibirsk, 20-23 September 1960

So: Zhurnal analiticheskoy khimii, Vol XVI, No 1, 1961, page 119

PESHKOVA, V.M.; SHLENSKAYA, V.I.; SOKOLOV, S.S.

Photometric determination of palladium with  $\alpha$ -furyldioxime.  
Trudy kom. anal. khim. 11:328-338 '60. (MIRA 13:10)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.  
(Palladium--Analysis) (Furaldehyde)

SHLENSKAYA, V.I.

Determination of ruthenium in the presence of uranium by means of  
rubeanic acid. Vest. Mosk. un. Ser. 2: khim. 15 no.2:69-72 Mr-Ap  
'60. (MIRA 13:6)

1. Kafedra analiticheskoy khimii Moskovskogo universiteta.  
(Ruthenium--Analysis) (Oxamide)

SHLENSKAYA, V.I.; BIKBULATOV, A.B.

Dithiophthalimide, a reagent for the colorimetric determination of ruthenium. Vest.Mosk.Un.Ser.2: khim. 16 no.6:51-52 N-D '61.  
(MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet. Kafedra analiticheskoy khimii.

(Ruthenium--Analysis)

SHLENSKAYA, V.I.; KHVOSTOVA, V.P.; PESHKOVA, V.M.

Spectrophotometric study of the interaction of palladium ions  
with potassium thiocyanate. Zhur.anal.khim. 17 no.5:598-603  
Ag '62. (MIRA 16:3)

1. M.V.Lomonosov Moscow State University.  
(Palladium compounds) (Potassium thiocyanate) (Spectrophotometry)

SHLENSKAYA, V.I.; PISKUNOV, Ye.M.

Nature of the reaction of ruthenium with thiocyanate ions. Vest.  
Mosk.un.Ser.2:Khim. 18 no.2:35-36 Mr-Apr '63. (MIRA 16:5)

1. Kafedra analiticheskoy khimii Moskovskogo universiteta.  
(Ruthenium compounds) (Thiocyanates)



POPOVICHEVA, N.K.; BIRYUKOV, A.A.; SHLENSKAYA, V.I.

Determination of the stability constants of palladium (II)  
bromide complexes. Zhur. neorg. khim. 9 no.6:1482-1483 Je '63  
(MIRA 17:8)

SHLENSKAYA, V.I.; YEFIMOVA, V.G.

Composition of a palladium compound with 8-hydroxyquinoline.

Vest. Mosk. un. Ser. 2:Khim. 19 no.1:67-71 Ja- F '64.

(MIRA 17:6)

1. Kafedra analiticheskoy khimii Moskovskogo universiteta.

BIRYUKOV, A.A.; SHLENSKAYA, V.I.

Composition and stability constants of the chloride complexes of  
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(MIRA 17:4)

BIRYUKOV, A.A.; SHLENSKAYA, V.I.

Spectrophotometric study of higher chloride and bromide complex  
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1. Kafedra analiticheskoy khimii Moskovskogo universiteta.

CHLENKIN, V.I.; FIDKUNOV, Ya.M.; KUPCHENKO, V.F.

Spectrophotometric study of the reaction of tetravalent ruthenium with thiocyanate ion and its analytical application. Vest.Mosk.un. Ser.2:Khim. 19 no.4:62-66 Sl-Ag '64.

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1. Kafedra analiticheskoy khimii Moskovskogo universiteta.

THE UNIVERSITY OF CHICAGO

Instrumental study of complex compounds in solutions by the function-parameter method. Vest. Mosk. un. Ser. 2: Khim. 19 no.6:49-55, 1974. (MIRA 18:3)

• Institute of Chemistry, Saint Petersburg State University.

SHLENSKAYA, V.I.

"Problems involved in the analysis of precious metals" (Proceedings of the Fifth All-Union Conference on the analysis of precious metals). Zhur. anal. khim. 20 no.1:136-137 '65.

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SELENSKAYA, V.I.

"Manual on the chemical analysis of platinum metals and  
gold" by S.I. Ginzburg and others. Zhur. anal. khim. 20  
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1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova, kafedra analiticheskoy khimii. Submitted October 17, 1964.

BIRYUKOV, A.A.; SHLENGSKAYA, V.I.; ALIMARIN, I.P.

Mixed halide and thiocyanate complex compounds of palladium (II)  
in aqueous solutions. Izv.AN SSSR. Ser.khim. no.1:3-8 '66.

(MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet. Submitted July 21,  
1965.

KOLPASHNIKOV, A.I., kand. tekhn. nauk; OSIPOVA, A.D., inzh.; SHOR, I.R.,  
inzh.; SHLENSKIY, G.N., inzh.; SERGEYEVA, L.N., inzh.

Developing a procedure for the manufacture and investigating  
the physicomechanical properties of thin magnesium alloy  
sheets. Trudy MATI no.57:58-65 '63. (MIRA 16:12)

KOLPASHNIKOV, A.I., kand. tekhn. nauk; DMITRIYEV, Yu.V., inzh.;  
SHLENSKIY, G.N., inzh.

Cladding of SAP [sintered aluminum powder]. Trudy MATI  
no.57:99-103 '63. (MIRA 16:12)

KOLPASHNIKOV, A.I., kand. tekhn. nauk; SHLENSKIY, G.N., inzh.

Ways of increasing the weight of blanks for the rolling of  
SAP [sintered aluminum powder] sheets. Trudy MATI no.57:  
104-109 '63. (MIRA 16:12)

PAISOV, A.I., kand. tekhn. nauk; SHLENSKIY, G.N., inzh.; SERGEYEVA, L.N., inzh.

Structural changes during the heating of SAP [sintered aluminum  
powder]. Trudy MATI no.57:127-134 '63. (MIRA 16:12)

41917

S/191/62/000/011/012/019  
B101/B186

AUTHORS:

Shlenskiy, O. F., Afinogenov, M. P.

TITLE:

Determination of some thermophysical properties of glass textolite in the temperature range of 20-600°C

PERIODICAL:

Plasticheskiye massy, no. 11, 1962, 53-57

TEXT: The heat absorption  $I_q(t)$ , kcal/m<sup>3</sup>, of glass textolite made of T-1 (T-1) glass fabric and a binding agent of 70% 3A-6 (ED-6) and 30%  $\text{UF}$  (IF) resin for a given temperature,  $t$ , and a given heat flow  $q$  was determined with a heating apparatus as described by O. Krischer (VDI Zeitschrift, no. 23 (1958)). Hence the specific heat  $C_p$ , kcal/kg.°C, was calculated. The change in weight by volume owing to thermal decomposition was also determined.  $t = 8.42s^{1.5} + 433$  ( $s$  = coordinate counted from the specimen center) was found for the temperature distribution within the specimen at a specimen thickness of 4.2 mm; output of the heater 380 w;  $q = 3.45 \cdot 10^6$  kcal/hr.m<sup>3</sup>; temperature measurement at 0.9 and 1.5 mm distance from the specimen center.  $t_{\text{mean}} = t_0 + \Delta t/3$  holds for the mean

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Determination of some thermophysical ...

S/191/62/000/011/012/019  
B101/B166

temperature, where  $t_0$  is the temperature in the specimen center, and  $\Delta t$  the temperature drop between center and surface. It was found (Fig. 5) that  $C_p$  had maxima in the range of 280-400°C corresponding to deflections in the curves  $I_q = f(t)$  caused by strong gas generation. The density-versus-temperature curves tend toward a limiting curve that corresponds to a heating at an infinite rate. The dependence of  $C_p$  on the rate of heating indicates that heat conductivity and thermal diffusivity must have a similar dependence. The following is written for estimating the quantity of heat  $H_{eff}$  led off by the decomposition products of the binder:

$$H_{eff} = I_q(t') + C(t)_{filler}(t_{en} - t),$$

where  $t'$  is the temperature at which the binder is completely burnt,  $t_{en}$  is the temperature of the entrained substances. An apparatus with a heat flow in the order of  $10^5$  kcal/m<sup>2</sup>·hr is satisfactory for determining  $I_q$ . There are 7 figures.

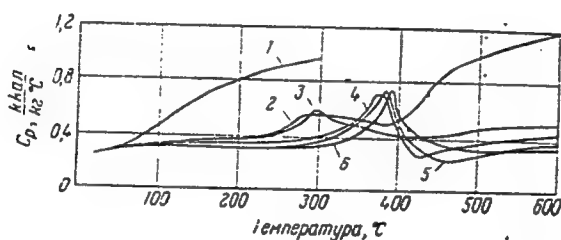
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Determination of some thermophysical ...

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B101/B186

Fig. 5.  $C_p$  (kcal/kg·°C) as a function of temperature (°C), and of the intensity of heating. First number: specimen thickness, mm; second number: heater output  $w$ ; third number:  $q_v \cdot 10^{-6}$ , kcal/hr·m<sup>2</sup>.  
(1) 8, 33, 0.6; (2) 6.3, 73, 1.62; (3) 5.6, 124, 3.17; (4) 2.1, 100, 6.85; (5) 2, 200, 14.4; (6) 2, 462, 31.7.



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EPF(c)/EPR/EWP(j)/EWT(m)/BDS/ES(s)-2--AFFTC/ASD/SSD--Ps-l/Pr-l/  
Pc-l/Pt-l--RM/MAY/WW

ACCESSION NR: AP3003312

S/0191/63/000/007/0052/0055

AUTHOR: Shlenskiy, O. F.; Nefedov, V. D.; Osipenko, I. M.TITLE: Determination of the strength characteristics of plastics at elevated temperaturesSOURCE: Plasticheskiye massy, no. 7, 1963, 52-55

TOPIC TAGS: plastic, plastics strength, plastics tensile strength, plastics elongation, plastics stress-strain curve, plastics elongation-loading time curve, plastics elongation-temperature curve, plastics modulus, ED-6 resin, plastics high-temperature strength

ABSTRACT: A simple and reliable apparatus, shown in Fig. 1 of the Enclosure, has been developed for determining the strength of plastics at elevated temperatures. By means of this apparatus, which is provided with a heating element, it is possible to simulate processes actually taking place in heated and stressed parts by selecting appropriate loads and heating rates and to record curves of elongation versus load, loading time, or temperature. The apparatus has the following characteristics: maximum tensile stress, 600 kg; maximum heating temperature, 500C; maximum loading rate, 100 kg/sec; heating rate, 0-10C/sec. The results of experiments conducted with ED-6 resin-based plastics were plotted and indicate

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ACCESSION NR: AP3003312

that 1) the strength of certain plastics drops sharply with an increase in temperature, 2) heating at 70C for 60 min does not affect the strength of certain plastics, and 3) deformation is highest immediately after loading. The characteristics established can be used in computing the high-temperature strength of plastics parts by the methods of plasticity theory (S. D. Ponomarev, V. L. Biderman, K. K. Likharev, V. M. Makushin, N. N. Malinin, V. I. Fedos'yev, Raschety\*na prochnost'v mashinostroyenii, II, Mashgiz, 1958). Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 30Jul63

ENCL: 01

SUB CODE: CH

NO REF SOV: 003

OTHER: 001

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- 15 (2/55) -

ACCESSION NR: AP4009838

S/0191/64/000/001/0062/0064

AUTHORS: Shlenskiy, O.F.; Barskiy, Yu. P.; Pichugin, N.P.

TITLE: Heat capacity and heat conductivity of plastics as determined during their destruction by heat

SOURCE: Plasticheskiye massy\*, no. 1, 1964, 62-64

TOPIC TAGS: plastic thermodestruction, plastic heat conductivity, plastic heat capacity

ABSTRACT: Due to destruction of plastics by heat at elevated temperatures, thermophysical  $\lambda$  and  $c\gamma$  coefficients not only depend on the temperature but also on time. To study these relationships, a special furnace, described in detail, was devised which assured a heat increase of 100 per second. Tests were made with the ED-6 epoxy resin at temperatures from 0 to 6000 and heat conductivity  $\lambda$  (in kcal/m-hr-degree) and heat capacity  $c\gamma$  (kcal/m<sup>3</sup>) were determined and plotted for different rates of temperature increase. It

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ACCESSION NR: AP4009838

has been found that the density of the plastic and, thus,  $\alpha$  decrease at temperatures above the beginning of destruction. Heat conductivity  $\lambda$  also decreases because of gas pockets formed in the mass. When destruction is completed, both coefficients rise again with rising temperature. Not only temperature but the rate of its increase in time influence these coefficients. Maximum heat conductivity coefficients for epoxy resins were determined. Orig. art. has 5 figures, 4 formulas, no tables.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 10Feb64

ENCL: 00

SUB CODE: OH

NO REF SOV: 003

OTHER: 000

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L-26100-65 ENG(j)/ENT(m)/EPF(c)/EWA(d)/ENP(v)/EPR/ENP(j)/T/ENP(t)/ENP(b)/EWA(h)/  
EWA(1) Pc-l/Pr-l/Ps-l/Peb MJW/JD/WJ/RM

ACCESSION NR: AP4046904

S/0191/64/000/010/0064/0066

AUTHOR: Shlenskiy, O. F.

TITLE: Thermogravimetric investigation of plastics 16

SOURCE: Plasticheskiye massy\*, no. 10, 1964, 64-66

TOPIC TAGS: plastic, heat treatment, thermogravimetry, glass plastic, thermal degradation

ABSTRACT: A new apparatus was developed for the thermogravimetric investigation of plastics, which eliminates the disadvantages of former devices in which the sample or sample holder is affected by convective gas currents and the lifting force produced by the convective motion of the medium leads to incorrect results during the determination of weight loss for the decomposing materials at different temperatures. The heater in this device is a thin (0.1 mm thick) metal band (stainless steel 1Kh18N9T) to which the layer of test sample is applied. The test sample is 7 x 36 mm. The device with the heating unit is described in detail, and a schematic view of the apparatus is given. A glass plastic with a binder based on ED-6 resin was tested. Curves are plotted for the density of the two-layer sample ( $\rho = 0.48$  mm) as a function of temperature at different heating rates (0.4-7 deg./sec. and a pressure of 10 kg/cm<sup>2</sup>) in the sample and in air. The

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ACCESSION NR: AP 4046904

determination for samples of different thickness (up to 2 mm) showed that with small temperature decreases (10-20 C), the thickness of the sample affects the kinetics of weight loss only slightly. A study of the relationship between the density and heating rate showed that  $\rho$  varies most over the heating range of 0-1 deg./sec. With increasing heating rates, the weight loss during the thermal degradation becomes smaller. The variation of density with temperature at different pressures was also plotted, and it was found that the effect of pressure on the rate of thermal degradation first appears at 400 C. Some technical formulas are given for calculating the variation in pressure in the heated sample with a known hydrodynamic resistance of the layer. The pressure gradient and gas consumption per second in the section of the decomposed material can be calculated by these formulas. With increasing heating rates, the maximum density is found to be a function of the type of plastics, determined by temperature. Orig. art. has: 4 figures and 3 formulas.

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, TD

NO REF SOV: 000

OTHER: 000

Card

2/2

ACC NR: AP6003948

SOURCE CODE: UR/0374/65/000/005/0128/0134

AUTHOR: Shlenskiy, O. F. (Moskva); Khovanskaya, N. N. (Moskva); Lavrent'ev, V. V. (Moskva)

ORG: none

TITLE: Method for comprehensive study of the mechanical properties of polymer films

SOURCE: Mekhanika polimerov, no. 5, 1965, 128-134

TOPIC TAGS: polymer, polyethylene plastic, photographic film, anisotropic medium, time, temperature dependence, poisson effect

ABSTRACT: Testers for determining the coefficients of lateral contraction of anisotropic film materials depending on the time and temperature are described. The test results of the polyethelene films are reported. Orig. art. has: 9 figures, 4 formulas, and 1 table. [Based on author's abstract]

SUB CODE: 11 SUBM DATE: 11Jan65/ ORIG REF: 002/ OTH REF: 002/ ATD PRESS:

Card 1/1

UDC: 678:620.17



L 22606-66 ENT(m)/EMP(j) IJP(c) RM  
ACC NR: AP6005833 (N) SOURCE CODE: UR/0374/65/000/006/0127/0131

AUTHOR: Shlenskiy, O. F. (Moscow) 06  
6

ORG: None

TITLE: Temperature simulation of the effect of liquid media on  
structures fabricated from plastics 15.4.65

SOURCE: Mekhanika polimerov, no. 6, 1965, 127-131

TOPIC TAGS: structural plastic, reinforced plastic, plastic strength,  
polymer structure, thermal effect, plastic deformation, heat  
conduction

ABSTRACT: A method is suggested for assessing deformation<sup>15</sup> of com-  
ponents fabricated of plastics and operated in contact with aggres-  
sive liquid media for a long period of time. The method is based on  
the analogy of processes of heat conduction and mass exchange. The  
purpose of temperature modelling is to reduce the testing time re-  
quired for determining deformation as compared to full-scale testing

UDC: 678:536.212.3+539.217 2

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L 22606-66

ACC NR: AP6005833

as well as to evaluate the efficiency of structural parts by maximum permissible adjustments. Orig. art. has: 9 formulas. [Based on author's abstract]

SUB CODE: 11/

SUBM DATE: 23Apr65/

ORIG REF: 007/

Card 2/2 *He/*

L 32954-66 EWP(j)/EWP(k)/EWT(d)/EWT(m)/EWP(h)/I/EWP(v)/EWP(l) IJP(c) RM/KN  
 ACC NR: AP6016029 SOURCE CODE: UR/0145/65/0000/011/0044/0048

AUTHOR: Shlenskiy, O. F. (Assistant)

ORG: None

TITLE: A stand for studying the maximum biaxial stressed state in plastics during heating

SOURCE: IVUZ. Mashinostroyeniye, no. 11, 1965, 44-48

TOPIC TAGS: stress analysis, complex stress, thermoplastic material, plastic, reinforced plastic, fiberglass, durability

ABSTRACT: The author proposes a test stand designed for studying the maximum biaxial stressed state in plastic specimens. This stand has a heating unit which makes it possible to set up an even temperature distribution in the wall of the cylindrical specimen. A diagram is given showing the test specimen in the stand (see figure 1). Specimens made of various plastics are tested with respect to their complex stressed state at various temperatures. A complex stressed state or temperature increase in certain types of plastics such as those reinforced by fiberglass reduces durability. This phenomenon is explained by softening of the thermoplastic components of the binder. This property differentiates plastics from metals with respect to fatigue.  $\sigma_{xb}-\sigma_{yb}$  diagrams plotted for various  $\sigma_x/\sigma_y$  may be used to calculate the safety factor

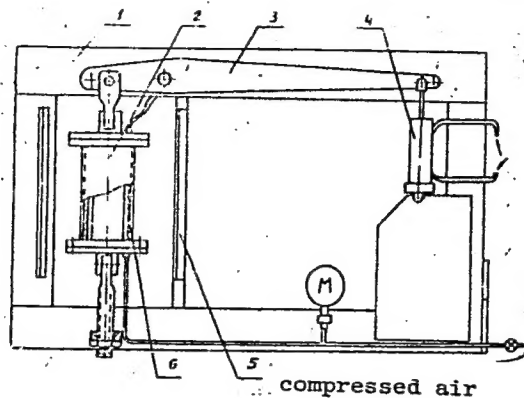
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L 32954-66

ACC NR: AP6016029

of plastic structures in a complex stressed state. Orig. art. has: 4 figures.



Test stand diagram: 1--frame; 2--cylinder; 3--walking beam; 4--force generator; 5--protective shell guides; 6--heater; 7--regulating nut.

SUB CODE: 11, 07/ SUBM DATE: 09Apr64/ ORIG REF: 002/ OTH REF: 000

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